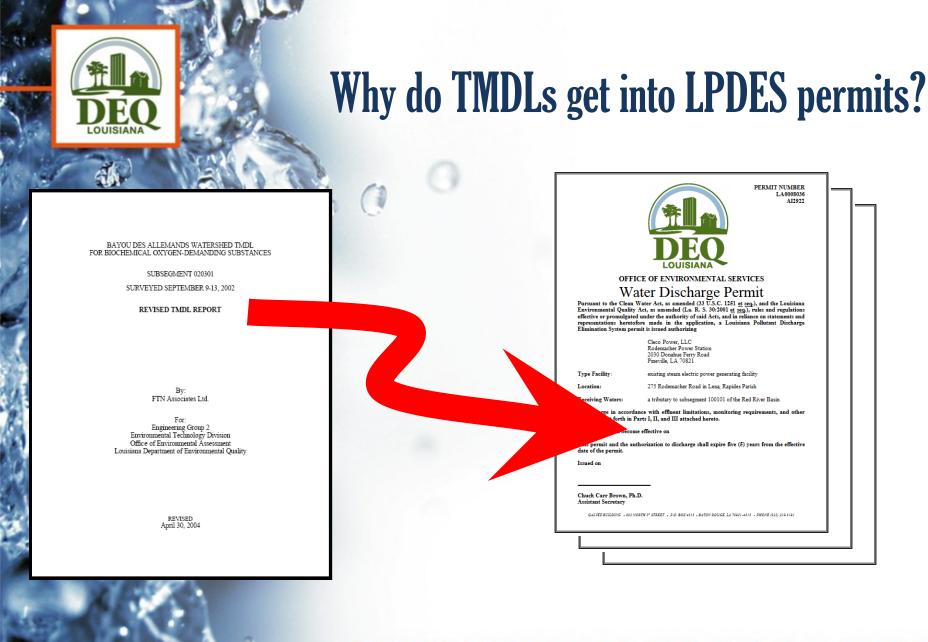


How TMDLs Will Affect Permit Issuance?

Yvonne Baker
Staff Scientist
Water Permits Division





Federal TMDL Regulations

Clean Water Act Section 303(d)

EPA Implementing Regulations at 40 CFR Part 130.7

 Upon final EPA approval TMDLs become part of the State Water Quality Management Plan (WQMP) where they are implemented into LPDES permits.



Implementing TMDLs into an LPDES Permit

- The permit limitations must be established based on the Waste Load Allocation (WLA) given to each individual point source in the TMDL.
- Models for the Lake Pontchartrain Basin are indicating drastic reductions (up to 94%) in permit limitations.



Lake Pontchartrain Basin TMDLs

• The Water Quality Assessment Division is currently gathering data and running the water quality models for the Lake Pontchartrain Basin.

• The information will be utilized in the development of the TMDLs.



Models for the Lake Pontchartrain Basin

Upgrade Existing Wastewater Treatment Plants

 Currently Effluent Limitations are generally 10 to 30 mg/L BOD₅

 Models are indicating that existing dischargers with limitations of 30 mg/L BOD₅ will require new effluent limitations of 10 mg/L CBOD₅, and 2 mg/L NH₃-N

 Models are indicating for existing dischargers with limitations of 10 mg/L BOD₅ will require new effluent limitations of 5 mg/L CBOD₅, 2 mg/L NH₃-N, 5 mg/L Dissolved Oxygen (minimum)

Treatment to these permit levels can be labor intensive and costly to achieve.

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Models for the Lake Pontchartrain Basin

- New Dischargers:
 - Submit an environmental impact assessment
 - Upon evaluation of the factors associated with the environmental impact assessment:
 - Option 1 permits with 5 BOD₅/ 5 TSS/2 NH₃/ 5 DO; or limits not to exceed 10 BOD₅/2 NH₃
 - Option 2 denial of permit coverage.



Models for the Lake Pontchartrain Basin

New sources may not be allowed to discharge or may be forced to relocate.

Potentially no new development

 Potentially significant economic hindrance



What can interested parties do?

Stay aware of TMDL development.

- DEQ developed TMDLs List Serve:
 http://doa.louisiana.gov/oes/listservpage/ld-eq-tmdl_listserv.asp
- EPA developed TMDL List Serve:
 http://www.epa.gov/fedrgstr/subscribe.htm
- Provide comments (remember the TMDLs directly affect you).



Options for Affected Parties

- Nothing
- Regionalization
- Local Ordinances
- Wetland Assimilation
- Innovative Technologies for no discharge scenarios



What happens if you choose to do nothing?

WHY THIS IS IMPORTANT TO YOU!!!!!!

- **Enforcement Actions**
- Consent Decree
- Penalties
- Permit Denials
- Poor Economic Development
- Continued Poor Water Quality



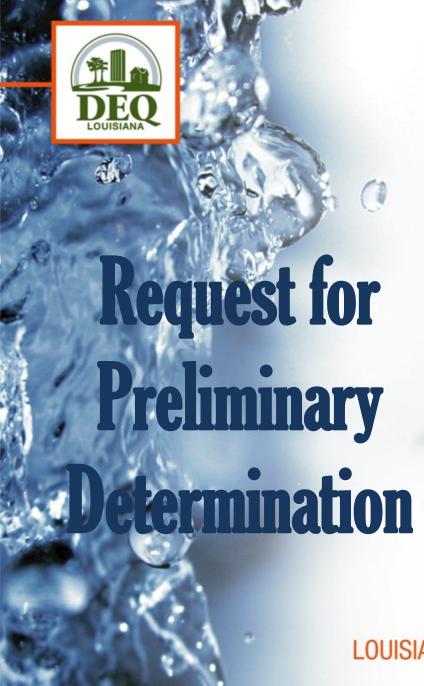
Regionalization

- More affordable treatment option
 - Cost per gallon of wastewater decreases as treatment capacity increases
 - Fewer treatment facilities to operate and maintain
 - Potentially fewer waterbodies impacted
 - Moves discharges out of neighborhood ditches



Local Ordinances

- Require approval from DEQ prior to issuing building permit
 - Request for Preliminary Determinations
 - Receive Final Permit Before Construction
- Do NOT allow developers to utilize individual home treatment units when developing subdivisions.







RTMENT OF ENVIRONMENTAL QUALITY MAIL COMPLETED FORM TO:

Office of Environmental Services, Water Permits Division Post Office Box 4313

Baton Rouge, La 70821-4313 Phone#: (225) 219-3181 Fax# (225) 219-3309

REQUEST FOR PRELIMINARY DETERMINATION

OF LPDES PERMIT ISSUANCE

SECTION I - SITE CONTACT INFORMATION

| Address City Zip | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| SECTION III - SITE INFORMATION | |
| If the wastewater treatment facility is to be owned and/or operated by a separate entity once constructed, please provide contact information for that entity. SECTION II - SITE INFORMATION | |
| SECTION II — SITE INFORMATION Name of Project Physical Location of Project LatitudedegminsecLongitudedegmin. ParishAnticipated Date of Discharge Total No. of PlannedNo. Phases/FilingsSize of Treatment Dwellingsin DevelopmentPlant (in gpd) Is community/municipal wastewater treatment available? Please explain. SECTION III — SITE DISCHARGE INFORMATION Provide the proposed discharge route to the first named waterbody. SECTION III — SITE MAP Attach to this form a topographic map which has been highlighted to show the proposed wastewater from the proposed facility to the first named waterbody. Include on the nextending at least one mile beyond your property boundaries. Indicate the outline of the fallocation of each proposed discharge structure. SECTION IV — CERTIFICATION I certify under penalty of law that this document and all attachments were prepared under m supervision in accordance with a system designed to assure that qualified personnel proper evaluate the information submitted. Based on my inquiry of the person or persons who responsible for gathering the information, the information submitted is, to the best of my kn belief, true, accurate, and complete. I am aware that there are significant penalties for sui information including the possibility of fine and imprisonment for knowing violations. | |
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REQUEST FOR PRELIMINARY DETERMINATION

LDEQ developed a Request for Preliminary Determination form to receive a "Head's up" of what sanitary discharges will be coming in the near future and to allow the LDEQ to inform the permittee of the future obstacles with respect to a sanitary wastewater discharge permit.

- Problem
 - LPDES permits are required prior to discharge <u>not</u> prior to construction
 - Construction general permit and building permits are issued to develop the site. These permits historically have been issued without planning in regards to the future sanitary wastewater.
 - Later, application for the discharge of sanitary wastewater from the facility is submitted. LDEQ receives the application and must either deny the permit due to water quality impairments or incorporates very stringent limitations which the permittee did not expect.
 - This can be extremely costly to the developer.

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Pre-Application Meetings

- Discussion of:
 - Potential permit limitations
 - Discharge location
 - Treatment Options
 - Mitigating Factors
 - No Discharge Scenarios
 - All Permitting Obstacles



Wetland Assimilation

LDEQ encourages new wetland assimilation projects

• Discharge of secondarily treated sanitary wastewater into a wetland for enhancement

Are there available wetlands?





Wetland Assimilation Contact Information

Ronnie Bean, ES-Staff

Louisiana Department of Environmental Quality

Office of Environmental Services

Water Permits Division

P.O. Box 4313

Baton Rouge, Louisiana 70821-4313

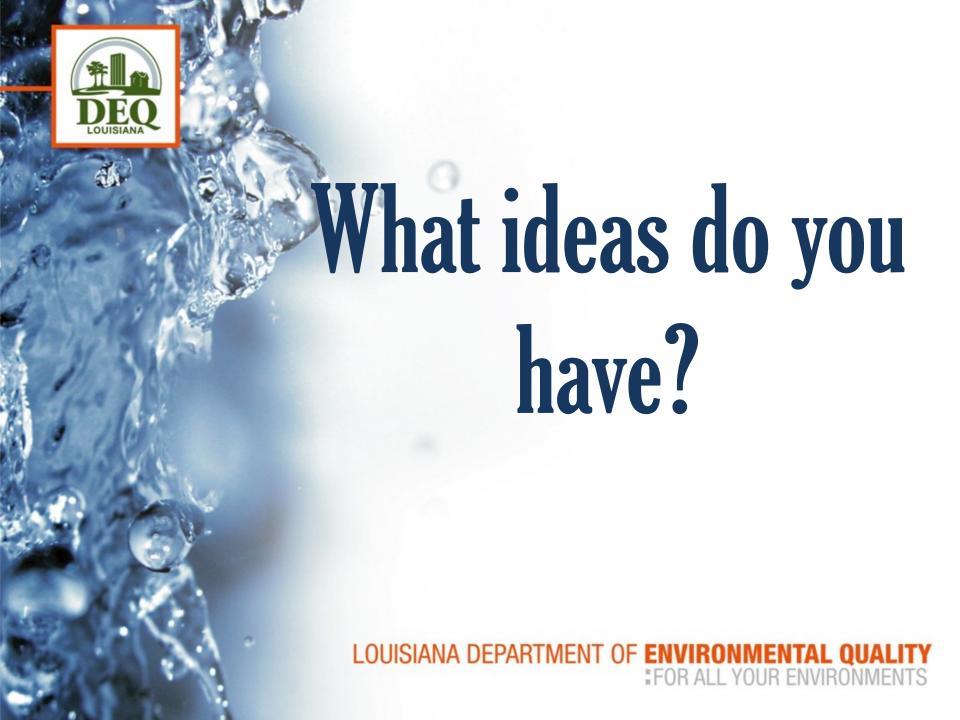
Telephone Number: (225) 219-3138

E-mail Address: Ronnie.Bean@LA.GOV



Innovative Technologies

- No Discharge Scenarios
 - Recycle
 - Reuse
- Hydrographic Release







Contact Information

Yvonne Baker, ES-Staff

Louisiana Department of Environmental Quality

Office of Environmental Services

Water Permits Division

P.O. Box 4313

Baton Rouge, Louisiana 70821-4313

Telephone Number: (225) 219-3073

E-mail Address: Yvonne. Baker@LA.GOV